THE TECH

VOL. XXIX. NO. 134. BOSTON, MASS., WEDNESDAY, APRIL 6, 1910 PRICE ONE CENT

RECENT DEVELOPMENT IN ORE DRESSING MACHINERY

Prof. R. H. Richards Gives Very Instructive Lecture Before M. E. Society

Yesterday evening the Mining Engineering Society held the sixth meeting of the year in the Union. President Breyer first spoke of the proposed application of the Society with the American Institute of Mining Engineering. As the Institute has been very conservative about taking in young engineers as members, this will be quite a remarkable opportunity extended to Tech men. The matter was left undecided.

Following this, Professor Robert H. Richards, head of the department of Mining Engineering, was introduced. The subject of his illustrated lecture was "Recent Developments in Ore Dressing Machinery," which was the same lecture lately delivered before the American Institute of Mining Engineers at Pittsburg and also before the Canadian Society at Toronto. Professor Richards began by describing the various kinds of machinery for crushing the ore. Following this there were shown other appliances such as trommels on revolving screens for separating the crushed ore into various sizes, classifiers, pulsion jigs for concentrating the ore, and finally the Wilfley table.

After this general description Prof. Richards described his investigations with regard to settling velocities of different materials, principally quarz and galena.

Numerous kinds of settling tanks were shown, all of which gave approximately the ratio of 3.5 to 1 for the sizes of quartz and galena which would settle in the same time. By using a process known as "hindered settling" with the pulsion jig a ratio was obtained of 6.9 to 1 in some cases. For this reason the pulsion jig is a very efficient machine for concentrating the ore, as it uses only one twentieth of the power which other kinds of machines take using natural settling, also it uses one-half as much water and occupies only one-fifth of the space. Pictures were shown illustrating the development of the classifiers from the old "Hog trough" which used natural settling and was very inefficient to the hindered settling classifiers of the present day.

The Wilfley table was the next topic of the lecture and diagrams were shown illustrating the concentrations obtained using natural feed, sized feed and classified feed. It was shown that with natural feed the losses were high, while with sized feed the losses were much less and with classified feed the best results of all were obtained.

About sixty students were present, besides some members of the faculty.

Following the lecture there was a social hour with refreshments.

There is sure to be some wonderful speed shown this spring before the intercollegiate championships. "Evens" for the century and 21 2-5s. for the furlong at this time of the year is marvelous running.

The Princeton rowing season starts Monday. The plans for the year have not been settled on as yet, but it is very likely that only class races will be tried.

Williams loses the services of Prindle, who had shown up prominently as a candidate for the baseball team. He was hit behind the ear by a batted ball and knocked unconscious.

"AROMATIC NUCLEUS" GIVES INSTRUCTIONS

For Securing Desk In Chemical Laboratory---Tech Union Tomorrow

A. Upon entering the laboratory show the Bursar's receipt for cash deposit (see Catalogue p. 306) to Miss Shrewder, in the supply-room, who will assign each student a desk. Then pass to an instructor and receive a pamphlet of instructions. Observe that one dollar is not charged for a key. Each desk will contain the necessary apparatus. Chemicals will be furnished as required. Check up the list and see that all the articles are in good condition. All claims for shortage should be made on pink slips, at the supply-room.

B. The apparatus in the desks is the property of the Institute and is loaned to students, who will be soaked for breakage. No charge is made for the use of "returnable" apparatus. When one's connection with the laboratory ceases, all apparatus must be cleaned. No rebate will be given for chemicals not consumed. Solvents in excess of two (2) listers must be paid for extra.

C. Each student is required to bring his own sample of apeptite, and may use his own procedure for analysis—using, however, only the apparatus furnished. The laboratory will be closed after 12, midnight.

Compound chemists subject to supersaturation will be furnished with a suitable stopper. The platinum toothpicks may be sold for cash to the chemical department.

Additional Charges.

D. A general charge of 60 cents is made to students who are registered for not more thtn four hours of laboratory work.

Students who fail to check up their desks and put them in order will be subjected to additional charge. Fully charged students may evaporate themselves to dryness on the hot plates.

A thermostat will be provided to keep the freshmen at constant temperature. Keep cool, or else ask an instructor.

(Signed) The Aromatic Nucleus.

GAME CANCELLED

Capt. Taylor of the Sophomore baseball team received word yesterday morning to the effect that the game with Volkmann for the afternoon could not be held.

The Volkmann Coach said that his men had not enough practice and that their chance of putting up their best game was not very good, hence he thought the game best be cancelled.

The Sophs put in the afternoon in practice, and played a scrub game.

Owing to the lack of a quorum the meeting of the athletic association, which was to be held yesterday, was postponed. Only ten men of the total membership of twenty-four responded to the call for the meeting.

It is regretted that the interscholastic track meets of Amherst and Dartmouth are scheduled for May 14. Many of the schools in the western part of the state were desirous of being represented at both meets.

CREW CANDIDATES ON THE CHARLES

Men Practicing With Harvard Shell On River Every Afternoon

The candidates for the crew are now practising on the Charles River. A shell has been hired from the Harvard Athletic Association and will be used until Tech has its own shell. Manager Herreshoff is now trying to get a line on a second-hand shell and he expects to have one soon.

Every afternoon the candidates report at the Union Boat House, and the men are each given a try-out. Usually there are three or four different eights out during the course of the day.

The coach is pleased with the way the men are taking hold of the work and sees the making of a fast crew out of the material. Most of the candidates are reporting at three o'clock, excepting a few who can not get around until four.

About thirty-five men are now reporting regularly. Many have had some experience in rowing, and of the others there are a number who are quickly picking up the knack of handling the oar.

COSMOPOLITAN CLUB

Only eleven active members were present at the business meeting of the Cosmopolitan Club last night. Although this was a quorum, the president decided to postpone the consideration of the question of joining the other Cosmopolitan Clubs of the country.

The rooms are now almost completely furnished, there being a piano, a reading table, a bookcase, chairs of various sorts, card tables, and games and magazines. There is now great need of pictures of cosmopolitan interest, but it is hoped that the members of the different nationalities will contribute these.

Keys are being distributed to the members, and it is the idea of the house committee that every member should have a key, so that he can visit the rooms when most convenient.

The mebership has increased to $2, including associate members who are neither students nor members of the instructing staff at Technology.

THE TECH DINNER

The Tech will hold an informal banquet on Tuesday, April 12 at the Union. Mr. Tracy, managing editor of the Transcript will be the main speaker of the evening and will give valuable advice and sugestions on modern journalism. Others who will be present are Professor Pearson and Mr. Carl of the English department, I. W. Litchfield, treasurer of the first board of the Tech, R. C. Tolman, editor-in-chief of The Tech in 1902, and Mr. R. Scharff, a former member of the board. Admission to the dinner will be open to all who have ever been connected with The Tech, and to all who ever intend to be. Mr. Scharff has promised to arrange a simple but satisfying dinner, and the price, although not yet decided upon, is sure to be reasonable.

BENBOW, BUSINESS MANAGER OF TECHNIQUE

Nominations Being Discussed For Society And Grind Editors

After a long discussion which threatened to result in a deadlock, David Fry Benbow, of Reading, Pa., was yesterday elected Business Manager of Technique 1912. Benbow is a lyric writer for the Tech Show. Last fall he was chosen class representative of the Institute Committee and is now secretary of the Point System Committee. He is also a member of the Technique Electoral Committee.

The committee is now considering nominations for the positions of Society Editor and Grind Editor of Technique.

1913 TO PLAY ROXBURY

Teams Will Meet This Afternoon At Tech Field

This afternoon at the Field, the Freshmen will meet the Roxbury Latin High School team on the diamond. This is the second game of the season for both teams. The Freshmen won from E. H. S. last Saturday in a close ten inning game; Monday, Roxbury Latin was defeated by the Cambridge Latin School by the score of 12 to 3.

Chase, the pitcher of the visiting team is one of their best men; Packard and Fox are also among the best players. It is expected that the Freshmen will start the game with either Hamilton or Hartford in the box; Thompson or Eastman will probably be behind the bat.

Roxbury's team will be probably Chase p, Smith 2b, Littlefield cf, Parkard c, Fox ss, Sheehan lf, Faunce rf, Lyons b, and Hyde 1b. All the Freshmen candidates will probably get in the game.

TO HEAR ABOUT PAINTS

"Paints for Structural Work" will be the subject of a talk by A. H. Sabin, consulting chemist for the National Lead Company, held under the auspices of the Architectural Society. The smoker will be open to all who care to come and will be at 8.00 P. M. Tuesday night, April 12.

CALENDAR.

Thursday, April 7.

6.30—Chem. Soc. Dinner, Union.
6.00—Dean Burton at T. C. A. Dining Union.
8.00—Musical Club. Concert, Temple Baptist Church, Dorchester.

Friday, April 8.

4.00—Technique 1912 Electoral Committee Meets, Union.
6.00—T. C. A. Dinner, Union.
8.00—Faculty Smoker, Union.

Saturday, April 9.

3.00—1912-1913 Track Meet, Tech Field.
3.00—Baseball, 1912 vs. M. A. H. S., Tech Field.
3.00—Baseball, 1913 vs. Wakefield, Wakefield.

THE TECH

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Wednesday's Issue

R. E. Wilson 1912 .....News Staff

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BOSTON, MASS., APRIL 6, 1910.

NO M. I. T. A. A. MEETING

Several days ago a meeting was called of the M. I. T. A. A. for yesterday. Every member received ample notice. A quorum did not turn up at the meeting yesterday.

This marks the climax of a very noticeable lack of interest that has been indulged in by the members. These meetings do not requihe much time, but they are very important from the standpoint of the welfare of athletics at the Institute. If these elected men do not have the interest in the work they were selected for on this committee it is up to the classes to elect men who are.

The real trouble with the Association is that aside from the appointment of the team managers it has no other duties than advisory. If names indicate present duties, the Advisory Council and Athletic Association should interchange names. It is the same old question of no authority to deal with matters. If the Athletic Association is to exist it must have men who will take the interest to make the work of the association progressive; it must have real rights; and it must collaborate with the Advisory Council.

GENERAL NEWS

TELEGRAPH NEWS OF THE MORNING.

WEATHER REPORT.

WEATHER REPORT.

Forecast for Boston and Vicinity.—Generally cloudy Wednesday, acompanied by light variable winds becoming easterly and southerly.

WASHINGTON, D. C.

Washington, April 6—There is much speculation in naval circles as to the outcome of the test of the La Coste ship brake now being fitted on the battleship Indiana in the dry dock at the Philadelphia Navy Yard. The sea trial of the brake, which, if successwul, will mean much in naval evolution, will take place off the Delaware Capes, April 18. A preliminary inspection of the apparatus has been made by six members of the Inspection and Survey Board of the Navy Department.

Washington, April 6—The Argentine naval commission, consisting of sixteen officers, is now in America to superintend the construction here of the two new Dreadnoughts just ordered by the South American country. Little has been officially made public as to the details of the new ships.

Cambridge, April 6.—A unique political campaign will be carried on next Monday by the students of Harvard University on the question of whether President Taft's record would justify his recall if the constitution of the United States provided for the recall in public service. An equal number of Democrats and Republicans will superintend the voting and the ballots will be in four colors in order to ascertain the number of Democratic, Republican, Socialist and unclassified voters in the university.

Bostin, April 6.—Visitors to the Charlestown Navy Yard yesterday showed much interest in the three little warships undergoing repairs in the smaller dry dock. They are submarines, set on the blocks in single file, and for one who has never before viewed one of these strangest of craft they are of great interest.. At the head of the line is the Tarpon, next comes the Stingray and on the outer end is the Narwhal. The ships are in commission and each flies a commission whip from a stubby signal mast and an American flag from a staff at the stern. As soon as the submarines are painted and some minor changes made they will be floated out of the dry dock.

Boston, April 6.—With the exception of the Ninth Regiment none of the bodies of the Massachusetts militia favor the repetition of the war game this summer, and consequently there will be no manoeuvres of the State's military establishments as a whole.

Boston. April 6.—A bulletin on reforestation in Massachusetts has been prepared by R. S. Langdell, assistant to State Forester Rane. It shows what is required to secure good stands of lumber in this State. The total area of Massachusetts is about 5,321,000 acres, and he says that 2,673,000 acres of this are adapted only to the growing of trees, and 700,000 acres of it are practically worthless tracts at the present time.

Philadelphia, April 6.—Folowing the latest refusal of the striking car men to accept the terms of settlement offered by the Philadelphia Rapid Transit the board of directors of the company have practically withdrawn their offer to take back all the men.

New York, April 6—The American line, under its contract with the United States Government, has carried ever since its incorporation ten cadets on each of its four ships—the Philadelphia, New York. St. Louis, and St. Paul. Their uniforms are provided for them, and their pay begins at $10 a month. It has been difficult, however, for the line to get the right kind of educated American boys to fill the vacancies as they occurred. In summer applications for vacancies pour in from all parts of the country from boys who wish to make a trip or two to Southampton in vacation time. They go with the intention of seeing as much as they can during the stay of the ship at Southampton, but not to study navigation and become officers in the mercantile marine. In the winter the applications practically cease.

Alameda, Cal., Apr. 6—Plunging from a height of 80 feet into the waters of San Francisco Bay, Frank Johnson, an aviator, riding the Curtis bi-plane, was nearly drowned yesterday a mile off shore.

It is remarkable to note the work of Gilbert Horrax, the former Williams College track star, at Johns Hopkins University. Horrax is referred to by Baltimoreans as a recent development showing how closely they follow track athletics in the South. He should prove a good man to try out Burdick and Lane, the Penn high jumpers, in the dual games to-morrow.

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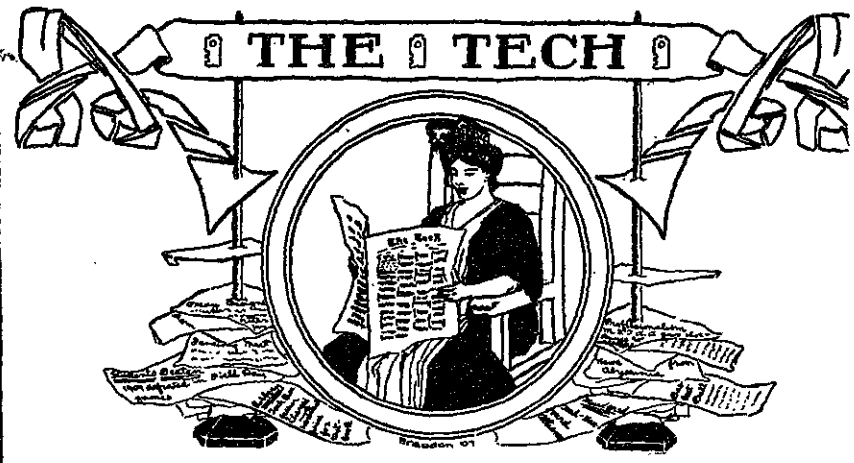

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THE ARENA

If the Freshmen don't buck up and work mighty hard this week, they will be far in the rear of the Sophs in the cross-country run next Saturday. Did you notice how the Sophs placed in the Intercourse? There were very few of them in the background.

Hamilton pitched a fine game for the Freshmen Saturday. He's got the speed all right, but is a little wild at times. Eastman was a shade the better of Thompson behind the bat, but they're both good men.

Severance, the Freshman star, had rather hard luck in the first game of the season, but you can depend on him to leave the hard luck "hoodoo" far behind as the season advances.

Allen, the manager-pitcher of the Sophs, is a first-class man on the slab, and when he has Capt. Taylor on the receiving end, you have a combination hard to beat.

A RESOLUTION

Whereas, Gorton James, Jr. 1910, has felt it necessary to give up his work as Chairman of the Entertainment Committee, and

Whereas, It is the sentiment of the Union Committee that he has given faithful and efficient service in spite of repeated discouragements, therefore be it

Resolved, That the Union Committee express to him its cordial thanks and appreciation, and be it further

Resolved, That a copy of these resolutions be sent to Mr. James, and that they be published in The Tech.

(Signed)

ALFRED E. BURTON, Chairman.
CARL J. SITTINGER, 1910. Sec.
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NOTICES

FIRST YEAR.

The gymnasium exercises in Physical Training will close this term on Thursday, April 14th. All deficiences must be made up within the next three weeks.

During the last week of exercises assignments will be made by Mr. Kanaly for physical measurements to be plotted on the charts.

Award of Cabot Medals, based on these reports, will be made by the Committee before tne end of the term.

ALFRED E. BURTON,
Chairman Faculty Committee on Physical Training.

FIRST YEAR.
SHADES AND SHADOWS.
March 24, 1910.

Exercises in this course will be held on Mondays, 2-3 and Fridays, 12-1, in Room 40A Pierce Building, beginning Monday, April 4, except on May 9, when the Monday exercise will be transferred to Wednesday, May 11, at 2 P. M.

Students are requested to bring to the first exercise T-square, 45 degree triangle, scale, etc.; paper will be furnished. WALTER HUMPHREYS,
Registrar.

1911 PROM.

Engraved invitations for the 1911 Junior Prom have been left at the Cage for all men who have signed up.

1913.

All men who expect to try for freshman outdoor track, report from now on at Tech Field for practice.

The track men are turning out in larger numbers at the Field now. The track is in fine condition, and we can't ask for better weather. EVERY MAN OUT.

OUR MOTTO IS "GOOD FOOD" AT THE LOWEST POSSIBLE PRICES. WE DO NOT HAVE TO MAKE ANY PROFITS, NOR PAY RENT OR LIGHTING BILLS.

FOREIGN.

Buenos Ayres, April 5—Argentina and Chile are at last connected by rail. The last branch connecting the railway systems of both States has been opened. Argentina was represented by the Minister of Public Works and Chile by the Minister of the Interior and the Minister of Public Works. Most cordial speches emphasized the importance of this railway connection between the Atlantic and the Pacific oceans.

Copenhagen, April 5—Gifford Pinchot, the deposed head of the Forestry Service in the United States, will leave here on Saturday for London. He expects to meet Mr. Rosevelt in Genoa. A committee including the Speakers of both Houses of Parliament has requested Mr. Roosevelt to deliver a public lecture while here. No reply has been received to the invitation. The United Steamship Company has placed the new steamer King Hakon at the disposal of the former President during his sea travels in Northern Europe.

It is regretted that Harvard's track team cannot enjoy a trip South similar to that made by Penn this spring and by Yale a year ago. It would do the men a world of good and put them in great shape. It is also understood that no trip to Exeter will be made as a year ago. Pooch Donovan will undoubtedly keep at Cambridge during the vacation the men who will represent the crimson at the Penn relay carnival, April 30.

One of the busiest "playgrounds" in this country is Soldier's Field. Lawn tennis, baseball, football soccer, lacrosse, track, shooting and field sports are participated in every afternoon. The same is said to be true at Columbia, so much so that the members of the field department of the track team have very little space in which to throw weights.

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